

SAF'ANOVA, V.M., GROKHOVSKAYA, I.M.; BUDAK, A.P.; GAYKO, B.A.; VINOGRADOVA, I.D.; POTOTSKAYA, V.A.

Experiment in treating plants with insecticides to control blood-sucking flies and midges under natural conditions [with English summary in insert]. Zool.zhur. 35 no.9:1335-1341 S '56.
(MLRA 9:12)

1. Otdel parazitologii i meditsinskoy zoologii Instituta epidemiologii i mikrobiologii imeni N.F.Gamaleya Akademii meditsinskikh nauk SSSR.

(Diptera) (Insecticides)

PETRISHCHEVA, P.A.; SAF'YANOVA, V.M.

Contribution to the control of Simuliidae larvae [with English
summary in insert]. Zool.zhur.35 no.12:1849-1852 D '56.

(MLRA 10:1)

1. Otdel parazitologii i meditsinskoy zoologii Instituta epidemiolo-
gii i mikrobiologii imeni N.F. Gamaleya Akademii meditsinskikh nauk
SSSR.

(Black flies) (Insecticides)

SAF YANOVY V. M.

SIDOROV, V.Ye.; *SAF' YANOVA, V.M.*

Modification of Por and Berlez' liquid for coating arthropods. Med.
paraz. i paraz.bol.supplement to no.1:58 '57. (MIRA 11:1)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.
(ARTIROPEDA--COLLECTION AND PRESERVATION)

SAF'YANOVA V.

FEDYAYEV, B.P., polkovnik med. sluzhby; GAYKO, B.A., podpolkovnik med. sluzhby; SAF'YANOVA, V.M., kand.biol.nauk; NEFEDOV, D.D., mayor med. sluzhby

Aerial chemical method of controlling biting insects in camps. (MIRA 11:3)
Voen.med.shur. no.3:58-63 Mr '57.

(INSECTS,
eradication, aerial method in military camps (Rus)

POGODINA, Ye.A.; SAF'YANOVA, V.M.

Testing the method of catching bloodsucking Diptera with the
PKK-4 mercury-vapor lamp [with summary in English]. Zool. zhur.
36 no.6:894-899 Je '57. (MLRA 10:8)

1. Ekspeditsiya Instituta epidemiologii i mikrobiologii im. N.F.
Caraleya Akademii meditsinskikh nauk SSSR.
(Diptera) (Electric lighting, Mercury-vapor)

SAF'YANOVA, V. M.

"On Field Methods for Testing Insect Repellants."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Institute of Epidemiology and Microbiology, USSR Academy of Medical Sciences (Moscow)

ZOLOTAREV, Ye.Kh.; SAF'YANOVA, V.M.; KALAKUTSKAYA, T.V.

Study of repellents. Report No.6: Kusol-impregnated Pavlovskii's nets as a means of protection against mosquitoes and black flies. Nauch. dokl. vys. shkoly; biol. nauki no.4:26-29 '59. (MIRA 12:12)

1. Rekomendovana kafedroy entomologii Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova i Institutom epidemiologii i mikrobiologii im. N.F. Gamaleya.
(Insect baits and repellents)
(Quinoline)

SAF'YANOVA, V.M.

Mosquitoes (*Phlebotomus*) of the Checheno-Ingush A.S.S.R. (former
Grozny Province). Zool.zhur. 38 no.7:1102-1103 J1 '59.
(MIRA 12:10)

1. Department of the Infections with Natural Nidality, Institute
of Epidemiology and Microbiology, Academy of Medical Sciences of
the U.S.S.R. (Moscow).
(Checheno-Ingush A.S.S.R.--Mosquitoes)

MAITAL'BAUM, Ya.A., kand.khimicheskikh nauk; SAF'YANOVA, V.M., kand.
meditsinskikh nauk; LOMAKINA, V.I.

Chemical insect repellents. Zhur. VKHO 5 no. 3:307-312 '60.
(MIK. 14:2)

(Insect baits and repellents)

PETRISHCHEVA, P.A.; SAF'YANOVA, V.M.; GAIKO, B.A.; NEFEDOV, D.D.

Principles for the control of *Aedes sanguisorbous* mosquitoes.
Med.paraz.i paraz.bol. 29 no.1:57-60 Ja-F '60. (MIRA 13:10)
(MOSQUITOES—EXTERMINATION)

MANDEL'BAUM, Ya.; SAF'YANOVA, V.M.

Diethylamide of metatoluic acid, and effective repellent
against blood-sucking insects and ticks. Med.paraz.i paraz.
bol. 29 no.5:570-575 S-0 '60. (MIRA 13:12)

1. Iz laboratorii organicheskikh insektofungitsidov Nauchno-
issledovatel'skogo instituta udobreniy i insektofungitsidov
(dir. instituta - prof. K.N. Malin, zav. laboratoriey - prof.
N.N. Mel'nikov) i otdela infektsiy s prirodnoy ochagovost'yu
Instituta epidemiologii i mikrobiologii imeni N.F. Gamalei
AMN SSSR (dir. instituta - prof. S.N. Muromtsev, zav. otdelom -
prof. P.A.Petrishcheva).
(INSECT BAITS AND REPELLENTS) (TOLUAMIDE)

SAF'YANOVA, V.M.

Materials on the ecology of bloodsucking mosquitoes in Vladimir Province. Zool.zhur. 39 no.2:236-243 F '60.
(MIRA 13:6)

1. Department of Infections of Natural Nidality, Institute of Epidemiology and Microbiology, USSR Academy of Medical Sciences, Moscow.
(Vladimir Province--Mosquitoes)

SAF'YANOVA, V.M.

Using the A.S.Monchadskii's bell in field tests of repellents for
bloodsucking dipterans. Zool. zhur. 39 no.8:1169-1173 Ag '60.
(MIRA 13:8)

1. Department of Diseases of Natural Nidality, Institute of Epidemiology and Microbiology, U.S.S.R. Academy of Medical Sciences, Moscow.
(Insect baits and repellents--Research) (Insect traps)

PETRISHCHEVA, P.A., prof., red.; ZASUKHIN, D.N., doktor biol. nauk, red.;
KUCHERUK, V.V., red.; SAF'YANOVA, V.M., kand. biol. nauk, red.

[Conference on leishmaniasis and pappataci fever] Soveshchanie po
leishmaniozam i moskitnoi likhoradke, g. Ashkhabad 28-30 marta
1962 g. Moskva, In-t epidemiologii i mikrobiologii im. N.F.
Gamalei AMN SSSR, 1962. 118 p. (MIRA 15:12)

1. Soveshchaniye po leyshmaniozam i moskitnoy likhoradke,
Ashkhabad, 1962.

(LEISHMANIASIS--CONGRESSES)
(PAPPATACI FEVER--CONGRESSES)

CHUGUNOV, Yu.D.; FLINT, V.Ye.; SAF'YANOVA, V.M.; KUDRYASHOVA, N.I.

Protection of humans from infection with zoonotic cutaneous
leishmaniasis in populated points of southern Turkmenistan.
Report No.1. Med.paraz.i paraz.bol. no.1:39-43 '62.

(MIRA 15:5)

1. Iz ot dela bolezney s prirodnoy ochagovost'yu Instituta epi-
demiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR (zav. -
prof. P.A. Petrishcheva).

(DELHI BOIL) (TURKMENISTAN--ANIMALS AS CARRIERS OF DISEASE)

PRAVIKOV, G.A.; POPOVA, Ye.S.; PETRISHCHEVA, PA.A.; REVUNOV, Ye.F.;
KARAPETYAN, A.B.; SAF'YANOVA, V.M.

Eradication of pappataci fever in Ashkhabad. Vop.kraev.paraz.
Turk.SSR 3:31-53 '62. (MIRA 16:4)

1. Ministerstvo zdravookhraneniya Turkmenskoy SSR i Institut
epidemiologii i mikrobiologii imeni N.F.Gamaleya, Moskva.
(ASHKABAD--PAPPATACI FEVER)

CHUGUNOV, Yu.D., SAF'YANOVA, V.M.; KUDRYASHOVA, N.I.; FLINT, V.Ye.;
RYZHKOV, M.V.; MAL'TSEV, M.I.

Testing the effect of a mixture of automobile exhaust gases
and insecticide dust for the formation of a protective zone
in a focus of cutaneous leishmaniasis. Vop.kraev.paraz.
Turk.SSR 3:153-156 '62. (MIRA 16:4)

1. Institut epidemiologii i mikrobiologii imeni N.F.Gamaleya,
Moskva, i Okrughnoy gospital' pogranichnykh voysk Turkmenskogo
okruga. (SAND FLIES--EXTERMINATION) (GERBILS--EXTERMINATION)

BELOVA, Ye.M.; SAF'YANOVA, V.M.

Isolation of leptomonad cultures from Caspian gekkos in the
Serakhs focus of cutaneous leishmaniasis. Zdrav. Turk. 7
no.11:26 N°63 (MIRA 17:3)

1. Iz Ashkhabadskogo instituta epidemiologii i gigiyeny (dir.-
dotsent Ye.S.Popova) i otdela prirodnoochagovykh bolezney
Instituta epidemiologii i mikrobiologii imeni Gamaleya AMN SSSR
(zav. - prof. P.A. Petrishcheva).

SAF'YANOVA, V.M.; SELEDTSOV, I.I.

Results of comparative tests of insecticides in moth fly control in a settlement in southern Turkmenia. Med. paraz. i paraz. bol. 32 no. 3:308-311 My-Je'63 (MIRA 17:3)

1. Iz otdela prirodnoochagovykh bolezney (zav. - prof. P.A. Petrishcheva) Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

SAF'YANOVA, V.M.

Results of testing individual bed curtains of net material
impregnated by repellents for protection against mosquitoes.
Med. paraz. i paraz. bol. 32 no.5:549-551 S-0'63

(MIRA 16:12)

1. Iz otdela bolezney s prirodnoy ochagocost'yu (zav. - chlen
korrespondent AMN SSSR P.A.Petrishcheva) Instituta epidemiolo-
gii i mikrobiologii imeni N.F. Gamalei AMN SSSR.

SAF'YANOVA, V.M.

Comparative epidemiological and epizootiological role of sandflies
(Phlebotominae) in the Serakhs focus of zoonotic dermal
leishmaniasis (Turkmen S.S.R.). Zool. zhur. 42 no.9:1383-1391
'63. (MIRA 16:12)

1. Department of Diseases of Natural Nidality, Institute of
Epidemiology and Microbiology, Academy of Medical Sciences of
U.S.S.R., Moscow.

BELOVA, Ye.M.; SAF'YANOVA, V.M.

Methods of studying natural infection of moth flies with leptomonads
in the nidi of cutaneous leishmaniasis. Zool. zhur. 42
no.11:1729-1732 '63. (MIRA 17:2)

1. Institute of Epidemiology and Hygiene of Ashkhabad and
Department of Diseases of Natural Nidality, Institute of
Epidemiology and Microbiology, Academy of Medical Sciences of
U.S.S.R., Moscow.

S. F'YANOVA, V.M.; GROKHOVSKAYA, I.M.; N'UYEN SUAN KHOE

Study on the larvae of bloodsucking mosquitoes (Culicinae) in
North Vietnam. Zool. zhur. 43 no.8:1173-1181 '64. (MIRA 17:11)

1. Otdel bolezney s prirodnye ochagovost'yu Instituta epidemiologii
i mikrobiologii AMN SSSR, Moskva.

SAF'YANOVA, V.M.

Observations on sand flies (Phlebotominae) in inhabited and uninhabited burrows of the greater gerbil in a focus of cutaneous leishmaniasis in Turkmenia. Zool. zhur. 43 no.9: 1335-1341 '64. (MIRA 17:11)

1. Otdel bolezney s prirodnoy ochagovost'yu Instituta epidemiologii i mikrobiologii AMN SSSR, Moskva.

GRODKOVSKAYA, Inna Mikhaylovna, kand. biol. nauk; SAF'YANOVA, Vera Mikhaylovna, kand. biol. nauk; LAGUTINA, Ye.V., red.

[Vectors of human diseases] Perenoschiki boleznei cheloveka.
Moskva, Izd-vo "Znanie," 1964. 47 p. (Novoe v znanii, na-
ukе, tekhnike. VIII Seriya: Biologiya i meditsina, no.15)
(MIRA 17:8)

~~SAF'YANTS, I.I.~~
KRYZHANOVSKIY, V.V.; ~~SAF'YANTS, I.I.~~; TUMUL'KAN, A.D.; YANUSHKOVSKIY, V.A.

Radioactive method for marking rolled steel. Zav.lab. 22 no.3:297-302
'56. (MLRA 10:5)

1. Staleprokatnyy i provolochno-kanatnyy zavod im. V.M. Molotova i
Institut fiziki Akademii nauk Latviyskoy SSR.
(Steel) (Radioisotopes--Industrial applications)

SAF'YANTS, V.I.

Defense reflex reactions in sea urchins. Uch. zap. IGU no.239:
(MIRA 12:1)
107-114 '58.

1. Laboratoriya fiziologii vysshey nervnoy deyatel'nosti Fizio-
logicheskogo instituta Leningradskogo gosudarstvennogo universite-
ta. i Murmanskaya biologicheskaya stantsiya AN SSSR.
(Sea urchins) (Animals, Habits and behavior of)

BARU, A.V.; BOLOTINA, O.P.; KRASUSKAYA, N.A.; LUKINA, Ye.V.; PAVLOV, B.V.;
PRAZDNIKOVA, N.V.; SAF'YANTS, V.I.; CHEBYKIN, D.A.

Material on a study of the dynamics of conditioned reflex activity
of representatives of certain classes of vertebrates. Trudy Inst.
fiziol. 8:99-106 '59. (MIRA 13:5)

1. Laboratoriya srovnitel'noy fiziologii vysshey nervnoy deyatel'-
nosti (zaveduyushchiy - B.V. Pavlov) Instituta fiziologii im. I.P.
Pavlova AN SSSR.
(NERVOUS SYSTEM--VERTEBRATES) (CONDITIONED RESPONSE)

BARU, A.V.; BOLOTINA, O.P.; PAVLOV, B.V.; PRAZDNIKOVA, N.V.; SAF'YANTS,
V.I.; CHEBYKIN, D.A.

Influence of alimentary excitability, and the size and quality of
alimentary reinforcement on the conditioned reflex activity of
representatives of some classes of vertebrates (fishes, birds,
and mammals). Trudy Inst. fiziolog. 9:274-284 '60. (MIRA 14:3)

1. Laboratoriya sravnitel'noy fiziologii vysshey nervnoy deyatel'nosti
(zaveduyushchiy - B.V.Pavlov) Instituta fiziologii im. I.P.Pavlova.
(CONDITIONED RESPONSE) (NUTRITION)
(VERTEBRATES)

PAVLOV, B.V.; SAF'YANTS, V.I.

Delayed food conditioned reflexes in pigeons and canaries. Trudy
Inst. fiziologii 10:265-272 '62 (MIRA 17:3)

1. Laboratoriya sravnitel'noy fiziologii vysshey nervnoy deyatel'nosti (zav. - B.V.Pavlov) Instituta fiziologii imeni Pavlova AN SSSR.

SAF'YANTS, V.I.

Inhibitory and excitatory influences on the flexor reflex centers
of single stimuli of the contralateral nerve. Fiziol.zhur. 48
no.5:598-605 My '62. (MIRA 15:8)

1. Laboratoriya obshchey nervno-myshechnoy fiziologii Instituta
fiziologii imeni I.P.Pavlova AN SSSR, Leningrad.
(MUSCLES—INNERVATION)

SAF'YANTS, V.I.

Contralateral influences affecting different components of the
reflex response of the flexor center. Fiziol.zhur. 50 no.1:73-80
Ja '64. (MIRA 18:1)

1. Laboratoriya nevrofiziologii Instituta fiziologii imeni I.P.
Pavlova AN SSSR, Leningrad.

I. 34739-66

ACC NR: AP6025125

SOURCE CODE: UR/0239/66/052/001/0034/0039

AUTHOR: Saf'yants, V. I.

ORG: Laboratory of Neurophysiology, Institute of Physiology im. I. P. Pavlov,
AN SSSR, Leningrad (Laboratoriya neyrofiziologii instituta fiziologii AN SSSR)

TITLE: Mechanism of the protracted contralateral influences in the spinal cord
induced by a single stimulus

SOURCE: Fiziologicheskiy zhurnal SSSR, v. 52, no. 1, 1966, 34-39

TOPIC TAGS: neurology, cat, nervous system, reflex activity, neuron, muscle
physiology, medical laboratory instrument, cathode oscillator/OK-21, cathode
oscillator

ABSTRACT: Cats under other anesthesia were used in experiments carried out
to determine the extent to which protracted contralateral influences in the
lumbosacral part of the spinal cord elicited in response to single stimuli may
be conditioned by involvement in reflex activity of the upper segments of the
spinal cord and the reverse proprioceptive impulses generated in the receptor
apparatus of the contralateral muscles upon their contraction. An electronic
stimulator emitting two rectangular impulses 0.1 microseconds in duration,
with separate outlets for both, and applied at intervals of zero to 400
microseconds was used as the source of stimulation. An OK-21 cathode oscillator
was used to record the action of the potentials. Recorded action potentials of
Card 1/2

UDC: 612.82.83

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ACC NR: AP6025125

the ventral roots L₇ and S₁ of the semitendinosus nerve and muscle were accepted as the initial testing reflex responses to the stimulus. A single stimulation of the contralateral peroneal nerve at definite intervals preceded stimulation of the ipsilateral nerve. During each time interval control tests with ipsilateral stimulation and combined ipsilateral and contralateral stimulation were carried out. The data were statistically processed. It was found that protracted inhibitory and exaltation contralateral influences are retained under conditions in which only the lumbosacral part of the spinal cord functions; the section of the contralateral ventral roots of the lumbosacral part of the spinal cord does not modify the duration of the contralateral inhibitory and exaltation responses to single stimulus; the protracted course of contralateral influences is due neither to the reverse proprioceptive impulses generated in the receptor apparatus of the contralateral muscles upon their contraction nor to the involvement in the reflex activity of the upper segments of the spinal cord; the protracted contralateral influences in the lumbosacral part of the spinal cord elicited by single stimuli are the result of the activation of a large number of neurons prevailing in this part of the spinal cord. Orig. art. has: 3 figures and 2 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: 15Jul64 / ORIG REF: 008 / OTH REF: 003

Card 2/2 BLG

GRODZKIY, Ya.S.; ZHDANOV, A.A.; SAF'YANTS, K.G.

Start-up and adjustment of protective-gas stations. Gaz. prcm. 10
no. 6/24-29 '65. (MIRA 18:6)

SAF'YEN, B.E.

Influence of some various nonoccupational factors on the course
of chronic intoxication with carbon disulfide. Gig.i san. 25
no.1:69-72 Ja '60. (MIRA 13:5)

1. Iz zdravpunkta zavoda iskusstvennogo volokna Lesogorskogo
rayona Leningradskoy oblasti.
(CARBON DISULFIDE--TOXICOLOGY)

S/035/62/000/010/083/128
A001/A101

AUTHOR: Saga, Vladimir

TITLE: Some problems of using technical means of mechanization and automation of geodetic works abroad and in Czechoslovakia

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 10,
abstract 10G43 ("Geod. a kartogr. obzor", 1962, v. 8, no. 3,
44 - 48, Czech)

TEXT: The author briefly describes the most recent photogrammetric instruments (aeromat, stereometrograph, coordinate meter, improved stereocomparator of the firm Zeiss Aerotopograph), geodetic (radio and optical range finders, theodolite-range finder GDM, theodolites with photorecording, leveling instruments with automatic adjustment of sighting line, reduction tacheometers) and computing machines (analytical and electronic computers). It is noted that mechanization and automation of graphical works is practically absent in Czechoslovakia; only in 1962 the construction of an automatic coordinatograph will be completed according to Valka design. Special computation bureaus should be organized for complete mechanization of office geodetic works, as it has been done by the Ministry of Agriculture and Forestry in
Card 1/2

Some problems of using technical means of...

S/035/62/000/010/083/128
A001/A101

Hessen (FRG) and the Union Administration of Measures and Geodesy in Vienna for cadastre. Decisions of a conference, held on April 5-6, 1961, at Jena by the Palace of Technique of GDR, on mechanization and automation of geodetic and cartographic works are described. There are 4 references.

N. Modrinskiy

[Abstracter's note: Complete translation]

Card 2/2

SAGA'N, M.F. [Sahach, M.F.], inzh.-elektrik

Using electric motors of shearing machines in repair work. Mekh.sil'.
hosp. 9 no.3:17-18 Mr '58. (MIRA 11:4)
(Electric motors) (Sheep shearing)

SAGACH, M.F. [Sahach, M.F.], inzh.-elektrik

How to increase the productivity of the RKP-2,0 root cutter.
Mekh.sil', hosp. 9 no.11:25-26 N '58. (MIRA 11:12)
(Agricultural machinery)

SAGACH, M.F. [Sahach, M.F.], inzh.-elektrik

Using electric carts on livestock farms. Mekh.sil'.hosp.
8 no.9:26-27 S '59. (MIEA 13:1)
(Carriages and carts)

SAGACH, M.F. [Sagach, M.F.], inzh-electrik

Automatic floatless water tower. Mekh. silt'. hosp. 11 no.11:11-12
N '60. (MIRA 13:11)

(Pumping stations)

GAYDUK, Vladimir Nikitovich [Haiduk, V.M.]; SAGACH, Mikhail Fedorovich
[Sahech, M.F.]; SEMENKO, M.V., red.; CHEREVATSKIY, S.A.
[Cherevats'kyi, S.A.], tekhn. red.

[Thermoelectric systems in agriculture] Elektroteplovi sil's'ko-
hospodars'ki ustanovky. Kyiv, Derzh. vyd-vo sil's'kohospodars'koi
lit-ry URSR, 1961. 138 p. (MIRA 15:3)
(Electricity in agriculture)

KONDRATYUK, Pavel Ivanovich; OS'MAK, Ilarion Terent'yevich
[deceased]; SINYAVSKIY, V.M.[Syniav's'kyi, V.M.]; SACACH,
M.F.[Sahach, M.F.]; LEVITSKAYA, G.P.[Levyts'ka, H.P.],
red.; GULENKO, O.I.[Hulenko, O.I.], tekhn. red.

[Mechanization of livestock and poultry farms] Mekhaniza-
tsia tvarynnitskykh i ptakhivnychkh ferm. 3., perer. i
dop. izd. Kyiv, Derzhsil'hospvydav URSR, 1964. 333 p.
(MIRA 17:4)

SAGADAKOVA, V.M.; KADYROV, V.K.

Brief hydrochemical description of the Orto-Tokoy Reservoir.
Izv. AN Kir. SSR. Ser. est. i tekhn. nauk 4 no.5:129-138 '62.
(MIRA 16:4)

(Orto-Tokoy Reservoir)

LEVCHENKO, V.M.; KADYROV, V.; SAGADAKOVA, V.M.

Hydrochemical studies at the Orto-Tokoy Reservoir. Gidrokhim.
mat. 38:46-52 '64. (MIRA 18:4)

1. Gidrokhimicheskaya laboratoriya AN Kirgizskoy SSR, Frunze.

SAGADIYEVA, K.Zh.; KOZLOVSKIY, M.T.

Amalgam polarography and the solubility of metals in mercury. Izv.
AN Kazakh.SSR.Ser.khim. no.1:22-25 '59. (MIRA 13:6)
(Polarography) (Amalgams)

SAGADIYEVA, K.Zh.

Amalgam polarography and its importance. Trudy Inst.khim.nauk AN
Kazakh.SSR 6:157-169 '60. (MIRA 14:4)
(Amalgams) (Polarography)

~~SAGADIMVA~~

Analysm polarography of gallium. Zhur. anal. khim. 19 no.6:
677-680 '64.

(MIRA 18:3)

1. Kazakhstanskiy gosudarstvennyy universitet imeni Kirova,
Alma-Ata.

SAGADIYEVA, K.Zh.

Polarography of zinc amalgams. Vest.AN Kazakh.SSR 17 no.1:77-83
'61. (MIRA 14:1)
(Zinc—Electric properties) (Polarography)

SAGARIV-YA, K.Zh.; KORIOVSKIY, M.T.

Amalgam polarography of manganese. Vest. AN Kazakh. SSR. 19
no.5;85-87 My '63. (MIRA 17:7)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446720014-2

SACADIYEVA, K.Zh.; KOZLOVSKIY, M.T.

Amalgam polarography of indium. Izv. AN Kazakh. SSR. Ser. khim.
nauk 15 no.1:3-8 Ja-Mr'65. (MIRA 18:12)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446720014-2"

14-57-6-12302

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6,
p 84 (USSR)

AUTHORS: Kadyrov, V., Sagadokova, V.

TITLE: Hydrochemical Content of the Water in the Great
Chuyskiy Canal and its Ion Shift (Gidrokhimicheskiy
rezhim vody Bol'shogo Chuyskogo kanala i yego ionnyy
stok)

PERIODICAL: Tr. in-ta vod. kh-va i energ. AN KirgSSR, 1956, Nr 36,
pp 119-122

ABSTRACT: Through the year, the water mineral content changed
from 216 mg/l to 240 mg/l. Limits of principal ion
concentrations (in mg/l) are: HCO_3^- -- 152 - 188;
 SO_4^{2-} -- 24 - 30; Cl^- -- 8 - 10; Ca^{2+} -- 43 - 55;
 Mg^{2+} -- 9.6 - 13.0; Na^+ K^+ -- 3.5-10.5. During the
period of observation pH varied from 8.0 to 8.17 (an
insignificant change in bicarbonate ion concentra-
tion). Mineral content of the water increases down-
Card 1/2

SAGAIDAK L. P., NOVIKOVA, V. N., IGOLKIN, N. I.

"Leptospirosis in the Tomsk oblast." p. 159

Desyatoye Soveshchaniye po parazitologicheskim problemam i prirodnocozrovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with "Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

Inst. of Vaccines and Sera and the Med. Inst/ Tomsk

SAGAKOVA, V.P; LYUBIVAYA, A.I.

Rapid method of determining the tin content of canned food.
Kons.i ov.prom. 15 no.9:37-40 S '60. (MIRA 13:9)

1. Ukrainskiy nauchnois sledovatel'skiy institut konservnoy
promyshlennosti.
(Food, Canned) (Tin--Analysis)

SAGAKOVA, V. P.; LYUBIVAYA, A. I.

Rapid method of determining potassium and sodium in canned foods
by means of flame photometry. Kons.i ov.prom. 15 no.10:24-26 0
'60. (MIRA 13:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy
promyshlennosti.
(Food, Canned--Analysis) (Potassium--Analysis)
(Sodium--Analysis)

SAGAKOVA, V.P.; LYUBIVAYA, A.I.

Rapid method for determining copper in canned food. Kons. i ov.
prom. 16 no.9:35-37 S '61. (MIRA 14:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy
promyshlennosti.
(Food, Canned--Analysis) (Copper--Analysis)

GUTTSAYT, Z.I.; KRAVCHENKO, V.A.; NIKITIN, N.S.; PANICHEVA, A.G. Prini-
mali uchastiye: GOL'DSHTEYN, R.I.; PANKRATOVA, O.M.; SAGAKSKAYA,
V.G. KORYAGIN, I.D., kand.ekonom.nauk, red.

[Petroleum industry of the capitalist countries of Western
Europe, the Near, Middle, and Far East, Canada, and Latin
America] Neftianaya promyshlennost' kapitalisticheskikh stran,
Zapadnoi Evropy, Blizhnego i Srednego Vostoka, Dal'nego Vostoka,
Kanady i Latinskoi Ameriki; kratkii obzor statisticheskikh dannykh.
Pod red. I.D.Koriagina. Moskva, 1959. 302 p.

(MIRA 13:11)

1. Moscow. Gosudarstvennyy nauchno-issledovatel'skiy institut
nauchnoi i tekhnicheskoy informatsii.
(Petroleum industry)

GERSHUNI, G.V.; KLAAS, Yu.A.; LUKOMSKAYA, N.Ya.; LINYUCHEV, M.N.;
SAGAL, A.A.

Method of evaluating human discrimination of sound stimuli with
increasing amounts of information and its use in studying the
effect of certain pharmacological substances [with summary in
English]. Biofizika 4 no.2:158-165 '59. (MIRA 12:4)

1. Institut fiziologii imeni I.P. Pavlova AN SSSR, Leningrad 1-y
Leningradskiy meditsinskiy institut imeni I.P. Pavlova.

(PHARMACOLOGY,
discrimination of sound stimuli with increased
amount of information in investigation of eff.
of pharmacol. prep. (Rus))

(PERCEPTION,

same)

(SOUNDS, eff.
same)

SAGAL, A.A.

Dynamics of the perception of information by the human auditory
analysor. Probl.fiziol.akust. 4:155-168 '59. (MIRA 13:5)

1. Laboratoriya fiziologii sluchevogo analizatora Instituta fizio-
logii imeni I.P. Pavlova AN SSSR, Leningrad.
(HEARING)

SAGAL, A.A., Cand. Med. Sci., — (diss) "On the perception of signals of growing complexity in the sound analyzer of man," Moscow, 1961, 19 pp (Institute of Higher Nervous Activity and Neurophysiology, Academy of Sciences USSR) 200 copies
(KL-Supp 9-61, 192)

SAGAL, A.A.

Possibilities of using information theory in neuropathology
and psychiatry. Vop. psich.i nevr. no.7:472-479 '61. (MIRA 15:8)
(PSYCHIATRY) (INFORMATION THEORY)

(NERVOUS SYSTEM--DISEASES)

SAGAL, A.A.

Methods for the estimation of differential sensitivity in the
analysis of statistically complex signals in man. Biofizika 6
no. 2:142-148 '61. (MIRA 14:4)

1. Institut evolyutsionnoy fiziologii imeni I.M. Sechenova AN
SSSR, Leningrad. (PSYCHOMETRICS)

SAGAL, A.A.

Estimation of differential sensitivity and the amount of information transferred in the analysis of auditory signals of different complexity in man. Biofizika 6 no.3:272-278 '61. (MIRA 14:6)

1. Institut evolyutsionnoy fiziologii imeni I.M.Sechenova AN
SSSR, Leningrad.
(HEARING) (BIOMETRY)

SAGAL, A. A.

Methods of determining differential sensitivity in the study of the statistically complex signals in man. Analele biol 15 no.6:19-26 N-D '61.

BRESTKIN, A.P.; ZAYDMAN, R.A.; MAYDANOVA, N.V.; SAGAL, A.A.

Kinetics of the fermentative transformation of fibrinogen into fibrin.
Dokl. AN SSSR 158 no.2:467-470 S '64. (MIRA 17:10)

1. Institut evolyutsionnoy fiziologii im. I.M.Sechenova AN SSSR. Pred-
stavлено академиком А.Н.Belozerskim.

SAGAL, A. A.

Dissertation defended in the Institute of Higher Nervous Activity and
Neurophysiology for the academic degree of Candidate of Medical
Sciences:

"Perception of Signals of Increasing Complexity in the Auditory Analyzer
of Man."

Vestnik Akad Nauk No. 4, 1963, pp. 119-145

SAGALATOV, V.V.

Proizvodstvo pechnykh izraztsov
(Production of glazed stove tiles). Moskva, Promstroi-
izdat, 1949. 146 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 5, August 1954

SAGALATOV, V.V.

[Brick and tile production] Proizvodstvo kirkpicha i cherepitsy.
Izd. 2-e. Moskva, Promstroizdat, 1954. 242 p. (MIRA 8:1D)

SAGALAYEV, G.V.

SHVYRYAYEV, Grigoriy Konstantinovich; KLINOV, I.Ya., redaktor;
KISELEV, V.S., redaktor; KLINOV, I.Ya., redaktor; KRUCHININ,
V.I., redaktor; POLYAKOV, K.A., redaktor; SAGALAYEV, G.V.,
redaktor; AYZENSHTAT, I.I., redaktor; KORNIeva, V.I., tekhn-

nicheskiy redaktor

[Electrolytic metal coating for parts and articles for the
chemical industry] Elektroliticheskie metallicheskies pokry-
tiia detalei i izdelii v khimicheskoi promyshlennosti. Pod.
red. I.IA.Klinova, Moskva, Gos.nauchno-tekhn.izd-vo khimi-
cheskoi lit-ry, 1955. 54 p. (Korroziia v khimicheskikh proiz-
vodstvakh i sposoby zashchity, no.2) (MLRA 8:10)

(Electroplating)

SAGALAYEV, G.V.

Some tasks for the repair and mechanical service in factories of
the Ministry of the Chemical Industry. Khim. prom. no.6:324-329
(MIREA 9:1)
S '55.

1.Glavnyy mekhanik Ministerstva khimicheskoy promyshlennosti.
(Chemical industries)

POLYAKOV, Konstantin Andreyevich; GURFINKEL', Moisey Aronovich; SAGALAYEV, G.V.
redaktor; AYZENSHTAT, I.I., redaktor; SHPAK, Ye.G., tekhnicheskij redaktor

[Corrosion and means of protecting equipment in the sulfuric acid
industry] Korroziia i sposoby zashchity oborudovaniia v sernokislotnoi
promyshlennosti. Pod red. G.V. Sagalaeva. Moskva, Gos. naucno-tekhn.
izd-vo khim. lit-ry, 1956. 214 p. (Korroziia v khimicheskikh proizvod-
stvakh i sposoby zashchity, no.7)

(MLRA 9:8)

(Corrosion and anticorrosives)

(Sulfuric acid industry)

SAGALAYEV, G.V.

International industrial exhibition in Belgium. Khim.nauka i
prom. l no.2:222-223 '56. (MLRA 9:9)

(Belgium--Industry--Exhibitions)

SAGALAYEV, G.; KRUCHININ, V.

"Corrosion of chemical apparatus and corrosion-resistant materials,"
I.IA. Klinov. Reviewed by G. Sagalaev, B. Kruchinin. Khim. prom.
no.3:190 Ap-My '56. (MLRA 9:10)

1. Glavnnyy mekhanik Ministerstva khimicheskoy promyshlennosti
(for Sagalayev) 2. Starshiy inzhener otdela glavnogo mekhanika
Ministerstva khimicheskoy promyshlennosti (for Kruchinin).
(Corrosion and anticorrosives) (Klinov, I.IA.)
(Chemical apparatus)

SAGALAYEV, G.V.

UDYMA, P.G.; SAGALAYEV, G.V., redaktor; DRIBIN, L.P., redaktor; KORNSEYVA,
V.I., tekhnicheskij redaktor

[Controlling corrosion of equipment for manufacturing semifinished
materials and dyes] Bor'ba s korroziiei oborudovaniia v proizvodstve
poluproduktov i krasitelei. Pod red. G.V. Sagalaeva. Moskva, Gos.
nauchno-tekhn. izd-vo khim.lit-ry, 1957. 157 p. (Korroziia v khi-
micheskikh proizvodstvakh i sposoby zashchity, no.9) (MLRA 10:9)
(Corrosion and anticorrosives)

SMIRNOV, L.A.; KANTAKUZEN, A.V.; BAKLANOV, N.A., red.; VOLODIN, V.Ye., red.;
KISELEV, V.S., red.; KLINOV, I.Ya., red.; KRUCHININ, V.I., red.;
SAGALAYEV, G.V., red.; UDYMA, P.G., red.; AYZENSHTAT, I.I., red.;
SHPAK, Ye.G., tekhn.red.

[Acidproof ceramic chemical apparatus] Khimicheskaiia apparatura
iz kislotoupornoi keramiki. Pod red.N.A.Baklanova. Moskva, Gos.
nauchno-tekhnik.izd-vo khim.lit-ry, 1957. 164 p. (Korroziia v khimi-
cheskikh proizvodstvakh i sposoby zashchity, no.10) (MIRA 10:12)

(Chemical apparatus)

SOY/81-59-10-35283

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 10, p 274 (USSR)

AUTHOR: Sagalayev, G.V.

TITLE: An tegmite¹³ and Its Application

PERIODICAL: Sb. Kom-t po korrozii i zashchite metallov Vses. sov. nauchno-tekhn. o-v, 1958, Nr 5, pp 77-87

ABSTRACT: The physical-chemical properties, the chemical resistance and the technology of application of the new heat-conducting anti-corrosion material ATM-1, are described.

G. Vashin

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5(2)

PHASE I BOOK EXPLOITATION SOV/3270

Sagalayev, Grigoriy Vasil'yevich

Antegmit i yego primeneniye (Antegmite [a New Anticorrosive Material] and Its Use) Moscow, Goskhimizdat, 1959. 86 p. Errata slip inserted. 4,000 copies printed. (Series: Korroziya v khimicheskikh proizvodstvakh i sposoby zashchity, vyp. 14)

Ed.: A. A. Vekser; Tech. Ed.: V. F. Zazul'skaya; (Title Page): Ed.: I. Ya. Klinov.

PURPOSE: This booklet is intended for chemical engineers and designers of chemical industry equipment.

COVERAGE: This booklet, one in the series "Corrosion in the Chemical Industries and Anticorrosion Methods", discusses the properties of a new anticorrosive material, antegmite, a chemically stable, antifriction, heat-conducting graphite. Usage and methods of manufacturing equipment and parts with antegmite are discussed. Data given is not regarded as conclusive owing to the short period

Card 1/3

Antegmite [a New Anticorrosive Material] (Cont.)

SOV/3270

II. Assortment of Products Manufactured	29
III. Methods of Processing	33
IV. Field of Application	35
V. Manufacturing Linings	37
VI. Production of Equipment From Carbon Graphitic Materials	49
VII. Pipes and Bearings	62
VIII. Design of Antegmite Equipment	66
IX. Technical and Economic Indicators	67
X. Application of Carbon Graphitic Materials Abroad	69
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AVAILABLE: Library of Congress

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LABUTIN, Aleksandr Lukich; SAGALAYEV, G.V., red.; BELEN'KIY, S.I.,
red.; ZAZUL'SKAYA, V.P., tekhn.red.

[Corrosion and corrosion control of equipment used in the
production of organic acids and their derivatives] Korroziia
i sposoby zashchity oborudovaniia v proizvodstve organicheskikh
kislot i ikh proizvodnykh. Pod red. G.A.Sagalaeva. Moskva,
Gos.nauchno-tekhn.izd-vo khim.lit-ry, 1959. 184 p. (Korroziia
v khimicheskikh proizvodstvakh i sposoby zashchity, no.13)

(MIRA 12:11)

(Acids, Organic) (Corrosion and anticorrosives)

SAGALAYEV, G.V.

New equipment for processing plastics. Plast.massy no.2:
59-63 '60. (MIRA 13:6)

(Plastics industry--Equipment and supplies)

SAGALAYEV, G.V.; KALINCHEV, E.L.

New molding machines. Plast.massy no.6:48-54 '61. (MIRA 14:5)
(Plastics--Molding)

S/063/62/007/002/009/01⁴
A057/A126

AUTHORS:

Garbar, M.I., Levin, A.N. Professor, Sagalayev, G.V.

TITLE:

Modern methods for the processing of plastics

PERIODICAL:

Zhurnal vsesoyuznogo khimicheskogo obshchestva imeni D.I.
Mendeleyeva, v. 7, no. 2, 1962, 207 - 211

TEXT: The scope of the present paper is to give some directions for the intensification and development of the Soviet plastics industry. To increase the productivity of presses one of the basic problems is the development of quick hardening of compression materials. The use of pure raw materials in the processing of polycondensation plastics and suitable filler compounds is expedient. An exchange of phthalic anhydride to isophthalic acid in the production of non-saturated polyester resins increases considerably the hardening rate and elasticity of the corresponding plastics. To simplify the proportioning of the raw material the weight of tablettes must be equal to the weight of the product and for this reason hydraulic tabletting machines should be used to a greater extent. High-frequency pre-heating is of advantage to reduce the holding time. One of the basic factors for high productivity is the exact temperature at the compres-

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S/063/62/007/002/009/01¹⁴

A057/A126

Modern methods for the.....

sion. Since automation is also of great importance, automatic presses with high productivity (above 3 - 5 million pieces per year) should be constructed. Another type of automation can be attained with rotor lines of automates, which is realized for instance in the Plant "Karbolit" for the production of pressed switch parts. One of the modern plastics processing method is casting compression, applied to thermoreactive materials in the manufacture of electric insulating articles. This method is insufficiently studied yet and besides complicated. Investigations in die casting, the basic method for the processing of thermoplastic materials, should be developed. At the present time several types of die casting machines were constructed in the USSR for 8, 16, and 32 cm³ articles without pre-mastication, for 63, 125, 250, 500, and 1000 cm³ with single screw-conveyer pre-mastication, and vertical die casting machines for 2,000 cm³ articles with double screw-conveyer mastication. Casting machines with one cylinder used for mold locking and injection of the material are of interest for the production of articles up to 100 g/cycle. Casting without pressure is becoming more important for epoxide and polyamide resins and foamed plastics. However, special attention should be paid here to mechanization and automation. Extrusion is a recently developed method applied to various thermoplastic articles. Rotating extruders (or with rotating cap) are of special interest for this type of

Card 2/3

38721

S/191/62/000/007/006/011
B124/B144

11.8439

AUTHOR: Sagalayev, G. V.

TITLE: The capacity of extruders

PERIODICAL: Plasticheskiye massy, no. 7, 1962, 50-58

TEXT: A simple equation suggested in 1930 by Decker (in the firm of Troester, German Federal Republic) for the capacity Q of extruders of any screw profile states: $Q = Mxan \mu$, where M is the volume of one screw thread, x the number of threads, a the degree of filling of the threads, n the screw speed, and μ the coefficient of friction of the material against the cylinder walls. Only the feeding conditions of the extruder are taken into account. Using granulate, a is practically constant, and with $\mu = \text{const}$ the capacity is proportional to a and the bulk weight. The value of a rises from 0 to 0.32 with an increase in capacity from 0 to 30 kg/hr. It was found that μ in Decker's equation may affect the capacity at least to the same extent as a . Since Decker's equation does not take account of counterpressure, viscosity of the material, etc., it is less accurate than the equation derived by Rogovskiy (1946) et al.: \checkmark

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S/191/62/000/007/008/011

B124/B144

The capacity of extruders

$Q = \alpha N + (\beta - \gamma) \frac{p}{\eta L}$, where Q is the output, p the pressure of the mass at the end of the screw, η the viscosity of the melt, N the screw speed, α the drag flow constant $= (1/2)\pi D h b \cos^2 \varphi$, β the pressure flow constant

$$= \frac{h^3 b \cdot \sin \varphi \cdot \cos \varphi}{12 L}, \gamma \text{ the leakage flow constant} = \frac{\pi D^2 \delta^3 \tan \varphi}{10 \cdot e L}, D \text{ the}$$

diameter of the screw, h the depth and b the width of the screw channel (along the axis), δ the radial clearance, φ the helix angle, e the land-width, and L the length of the screw. The "complete working diagram for extruder with head" (Fig. 4) shows the maximum capacity (for $p = 0$), the maximum pressure (for $Q = 0$), and the optimum working points (a, b, δ, φ) for the extruder with various extruder heads. In practice the resistance of the grids commonly used in these machines must also be considered. For determining the permissible interspace δ the diagram calculated by B. Meddok (Fig. 5) can be used, where A denotes an insignificant wear, B a slight wear and C a critical wear of the screw, with D the screw must be replaced or repaired, with E its use is no longer permissible. To calculate the energy required for extruding a Newtonian liquid, E. G. Fisher derived the following equation:

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S/191/62/000/007/008/011
B124/B144

The capacity of extruders

$$Z = \frac{\pi^3 D^3 N^2 r L}{h} + \frac{Q_D^2 \cdot P}{\cos^2 \varphi} + \frac{\pi^2 D^2 \cdot N^2 e L \tau}{\delta \tan \psi}, \text{ where } Q_D \text{ is the forward flow}$$

$(Q = Q_D - Q_p - Q_L)$ and Z the energy supplied to the screw. For a general calculation of the volumetric output of extruders the formula $Q_0 = 60V_o \cdot N \cdot n \text{ dm}^3/\text{hr}$ is given (V_o being the volume of one screw thread in the feeding zone, in dm^3), and for the capacity by weight the formula $Q_b = a\gamma \cdot Q_0 \text{ kg/hr}$ [Abstracter's note: in the original it reads Q_Q , misprint], where γ is the bulk weight in kg/dm^3 , and a the degree of filling of the screw (usually below 0.35); a is determined experimentally. The data were collected by E. Z. Bokareva, N. P. Shani, and A. N. Levin (Plast. massy, no. 1 (1959); no. 2 (1960)), as well as V. I. Bukhgal'ter and Ye. D. Severovostokova (Plast. massy, no. 2 (1960)) are mentioned. There are 9 figures and 3 tables. The most important English-language references are: E. G. Fisher, Extrusion of Plastics, London, New York, 1958; B. Meddok, SPE, No. 5 (1959). X

Card 3/4

3

UDYMA, Petr Grigor'yevich; SAGALAYEV, G.V., red.; BAKLANOV, N.A., red.;
BAYTIN, I.A., red.; KLINOV, I.Ya., red.; LABUTIN, A.L., red.;
TREBUKOV, P.D., red.; VEKSER, A.A., red.; SHPAK, Ye.G.,
tekhn.red.

[Corrosion-resistant pipelines made of nonmetallic materials]
Korrozionnostoikie truboprovody iz nemetallicheskikh mate-
rialov. Moskva, Goskhimizdat, 1963. 219 p. (Korroziia
v khimicheskikh proizvodstvakh i sposoby zashchity, no.20)
(MIRA 16:8)

(Pipelines--Corrosion) (Nonmetallic materials--Corrosion)

SAGALAYEV, G.V., kand. tekhn. nauk

Reviews and bibliography. Khim. i neft. mashinostr. no.5:
44-45 N '64 (MIRA 18:2)

L 35539-65 EWG(j)/EWP(e)/EPA(s)-2/EWT(m)/EPT(c)/ENG(m)/EWA(d)/EPR/EWP(j)/T/EWP(t)/
EWP(b) Pe-Li/Pr-Li/Pa-Li/Pt-10 RWH/JD/WW/HB/RM/WH
ACCESSION NR: AP5008235 8/0286/65/000/005/0129/0129

AUTHOR: Sagalayev, G. V.

TITLE: A method for obtaining anticorrosional compounds, Class 39, No. 121092

SOURCE: Byulleten' izobreteniya i tovarnykh znakov, no. 5, 1965, 129

TOPIC TAGS: corrosion prevention, graphite, resin, graphitization

ABSTRACT: This Author Certificate presents a method for obtaining anticorrosional compounds on the base of graphite and synthetic resins, containing over 80% of graphite. To increase its mechanical strength, the compound is fortified with ground waste of graphitized electrodes (artificial graphite) of granulometric composition following the formula: $y = 12 + 88\sqrt{d/D}$, where y is percent weight of

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CIA-RDP86-00513R001446720014-2

OLENEY, B.A.; SAGALAYEV, G.V.

Conditions of the formation of the shape of polypropylene
granules. Plast. massy no. 5-32-57-165. (MGA 18:6)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446720014-2"

SAGALAYEV, G.V.; LIBERMAN, Yu.A.

Effect of the filler's surface and density of its packaging on
the properties of plastic concrete. Plast. massy no.8:27-29
'65. (MIRA 18:9)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446720014-2

OLENEV, B.A.; SAGALAYEV, G.V.

Conditions for securing given dimensions of granules. Plast. massy
no.10:17-21 '65. (MIRA 18:10)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446720014-2"

L 47006-66 ENT(m)/EWP(j)/T RM
ACC NR: AP6027281 (A)

SOURCE CODE: UR/0191/66/000/008/0039/0042

AUTHOR: Sagalayev, G. V.; Andrianova, N. V.; Vlasov, S. V.; Gracheva, B. S.

25
B

ORG: none

TITLE: Optimum conditions for simultaneous biaxial orientation of polyethylene terephthalate film

SOURCE: Plasticheskiye massy, no. 8, 1966-39-42

TOPIC TAGS: polyethylene terephthalate, elongation, polymer physical property

ABSTRACT: In an earlier paper, the authors showed that the elongation stress σ and elongation work A_{el} can be used as criteria for the degree of orientation of polyethylene terephthalate (PETP) films. The object of the present paper was to correlate σ and A_{el} with the physicomechanical properties σ_u (tensile strength), σ_s (shrinkage stress), E (modulus of elasticity) and ϵ_g (free shrinkage) under corresponding elongation conditions (temperature t , elongation rate v and degree of elongation K). Values of t , v and K were chosen at which the samples of PETP had high physicomechanical properties, and the orientation parameters were calculated from them. The calculated values of A_{el} , obtained from the formula

$$A_{el} = 4[B + C_1(\log v) \exp\left(\frac{B_1}{T_1}\right)] \left(\frac{K}{1.2}\right)^n$$

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UDC: 678.674'524'420-416

L 47006-56
ACC NR: AP6027281

agreed with the experimental ones over wide limits. It is shown that the elongation conditions under which orientation and relaxation take place preferentially can be determined. The greater σ , the higher the orientation, and the better the physicomechanical properties. It is concluded that the optimum degree of simultaneous biaxial orientation of PETP can be obtained over a wide range of the interrelated technological parameters t , v , K , σ , A_{el} , etc. Orig. art. has 5 figures, 1 table and 6 formulas.

SUB CODE: 11/ ORIG REF: 003/ OTH REF: 005

Card 2/2 vmb

L. 08210-67 E&P(d)/E&P(m)/E&P(v)/E&P(l)/E&P(k)/E&P(h)/E&P(t)
ACC NR AF6023069 (A) SOURCE CODE: UR/0191/06/000/001/0056/0057 24

AUTHOR: Sagulayev, G. V.; Andrianova, N. V.; Vlasov, S. V.; Gracheva, B. S.

ORG: none

TITLE: Tensile testing of orientated polyethyleneterephthalic film

SOURCE: Plasticheskiye massy, no. 4, 1966, 56-57

TOPIC TAGS: tensile stress, elongation, polyethylene
TEREPHTHALATE

ABSTRACT: A new "diaphragm" method of determining the tensile strength of an oriented polyethyleneterephthalic (PETF) film is proposed to offset the drawbacks of the conventional technique. The material tested was a PETF film oriented in two directions. The schematic drawing of the test apparatus is shown in Figure 1. The diagram used to calculate forces and elongation is given in Figure 2. The results obtained by this method are characteristic of the average strength value of the entire piece of film or of the lot. The tensile strength specimens ranged between $1580 \pm 20\%$ for specimens cut by a razor blade, and $1900 \pm 7.5\%$ kg/cm² for the proposed specimens. The method proposed does not eliminate the effect of the "primary structures" of the original films on the "secondary structures." However, it minimizes the effect of the factors involved in cutting the specimens and reduces the structural distortion of the film. In the opinion of the authors, the conventional method of testing strip specimens must

UDC: 678.674'524'42-416.01 : 539.412

Card 1/2

L 08910-67

ACC NR: AP6023069

be retained in order to have a more accurate evaluation of strength in different directions of orientation. Orig. art. has: 2 fig., 3 formulas, and 1 table.

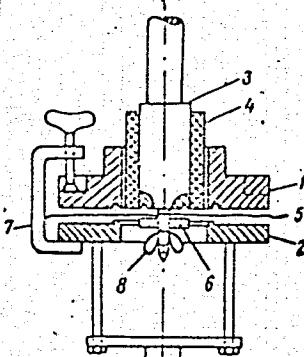


Figure 1. Schematic drawing of tensile test apparatus

- 1 and 2 - jaws;
- 3 - upper internal clamp;
- 4 - guide cylinder;
- 5 - specimen;
- 6 - lower internal clamp;
- 7 - hand clamp (two);
- 8 - butterfly nut

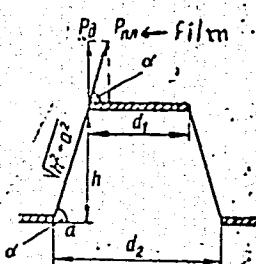


Figure 2. Diagram for calculation of forces and elongation of the film investigated

P_{nL} - force arising from stretching of film; P_a - tensile load; d_1 - diameter of internal clamp, cm; h - opening between clamps at time specimen fails, cm; a - width of work section of specimen

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 002

Cord 2/2

L 08797-67 EWT(m)/EWP(j) RM
ACC NR: AP6030850

(A, N) SOURCE CODE: UR/0191/66/000/009/0036/0039

AUTHOR: Sagalayev, G. V.; Andrianova, N. V.; Vlasov, S. V.; Gracheva, B. S.

ORG: none

TITLE: Assessment of the quality of films made of stereospecific polyethylene terephthalate

SOURCE: Plasticheskiye massy, no. 9, 1966, 36-39

TOPIC TAGS: polyester plastic, synthetic material, polymer, polyethylene terephthalate, synthetic fiber, plastic strength

ABSTRACT: The correlation between the degree of stereospecificity of polyethylene terephthalate films and modulus of elasticity, compression stress, and free thermal shrinkage was studied in the 70-128°C range. The stretching rate was 200-19,000% per minute, the degree of film stretch was from 1.5 up to the threshold value. The dependence of elasticity modulus, compression stress, and free thermal shrinkage on each of the three variables are graphed. It was found that all of these dependences reflect structural changes in the film material and are functions of temperature, rate of film stretch, and the degree of stretch. It was found that elasticity modulus and compression stress increase with increased stereospecificity of such films was found to decrease with increased film. The free thermal shrinkage of such films was found to decrease with increased

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L 08797-67

ACC NR: AP6030850

stereospecificity of the film's material. Orig. art. has: 5 figures and 3 formulas.

SUB CODE: 11/ SUBM DATE: 00/ ORIG REF: 004/ OTH REF: 011

Card 2/2 nat

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SAGAL'CHIK, Beniamin Mordukhovich; BOROVKOVA, R., red.

[Performance of the bucket of a backhoe on peat soils]

Rabota kovsha obratnoi lopaty na torfianom grunte.

Minsk, Gos.izd-vo sel'khoz. lit-ry BSSR, 1963. 37 p.

(MIRA 17:7)